

# Fact Sheet



## For Final Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

This Fact Sheet serves to address the changes specific to this Minor Modification, and shall be considered a supplement to the original Fact Sheet corresponding with the issuance of the initial Title V operating permit issued on October 4, 2006.

Permit Number: **R30-10300009-2006**  
Application Received: **August 31, 2010**  
Plant Identification Number: **10300009**  
Permittee: **Dominion Transmission, Inc.**  
Facility Name: **Hastings Extraction Plant**  
Mailing Address: **PO Box 370, Pine Grove, WV 26419**  
Permit Action Number: **MM01**      Revised: *January 18, 2010*

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Physical Location:	Pine Grove, Wetzel County, West Virginia
UTM Coordinates:	528.64 km Easting • 4377.66 km Northing • Zone 17
Directions:	From Clarksburg, take Route 20 north approximately 37 miles to Hastings. Station entrance is on the left side of the road.

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### Facility Description

Hastings Extraction Plant is a natural gas liquids extraction facility. Propane and heavier components of natural gas are removed through a turbo-expander cryogenic process. The heavier hydrocarbons are fractionated into the products propane, iso-butane, n-butane, and natural gasoline. The SIC code for this facility is 1321. There are no air pollution control devices associated with this facility or permit; therefore, there are no CAM requirements.

This minor modification is based on permit R13- 2468C and covers installation of a 211 HP diesel fired fire pump engine EN03 (Emission Unit ID 001-03) at the Galmish propane spheres for emergency firewater protection of the loading trucks. This change does not affect the function or process of the facility.

## Emissions Summary

There are the following emission changes associated with this modification:

Regulated Pollutants	PTE change, TPY
NO <sub>x</sub>	+ 5.30
CO	+ 1.22
VOC	+ 0.20
PM	+ 0.16
SO <sub>2</sub>	+ 1.91
Total HAPs	+ 0.04

## Title V Program Applicability Basis

With the proposed changes associated with this modification, this facility maintains potential to emit over 100 TPY of VOC. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Dominion Transmission, Inc. is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

## Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This minor modification has been found to be subject to the following applicable rules:

Federal and State:	45CSR13	Preconstruction permits for sources.
	45CSR30	Operating permit requirement.
	40 C.F.R. Part 60	Subpart IIII - Standards of Performance for Stationary Ignition Internal Combustion Engines

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

## Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit ( <i>if any</i> )
R13-2468C	Under review	N/A

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit

in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

### Determinations and Justifications

1. Waukesha Reciprocating Engine/Fire Pump (old Emission Unit ID 001-03) was assigned a new Emission Unit ID 001-04 because the Emission Unit ID 001-03 was assigned to the new diesel fired fire pump during the R13-2468C permitting process.
2. New requirements 9.1.3 and 9.1.4 were added for the new fire pump 001-03 (emission limits and diesel fuel combustion limit).
3. Requirements 9.1.5 (formerly 9.1.3) and 9.4.3 were revised to accommodate addition of the new engine 001-03.
4. Requirement 9.1.6 (formerly 9.1.4) - Part 60 Subpart IIII (40CFR60.4205(c)) emission standards for Engines 001-01 and 001-02 - was revised to add emission standards for the new engine 001-03. Based on the manufacturer's specifications for the new engine 001-03 provided in the Table below, the emission standards of the Subpart IIII for the new engine (also provided in the Table below) will be met. Because the engine will be certified by the manufacturer, the company will not be required to perform an initial performance test.

Fire Pump 001-03	NMHC + NO <sub>x</sub>		NO <sub>x</sub>		CO		PM	
	g/bhp-hr	lb/hr	g/bhp-hr	lb/hr	g/bhp-hr	lb/hr	g/bhp-hr	lb/hr
Subpart IIII Emission Standard For Fire Pump Engine with a displacement < 30 liters per cylinder and 175 ≤ HP < 300 of model year 2009 and later	3.0	1.40	-	-	-	-	0.15	0.07
Guaranteed Emissions of Proposed Fire Pump 001-03	2.6	1.21	2.6	1.21	0.6	0.28	0.08	0.04

Since permit emission limits of the fire pump engines 001-01, 001-02 and 001-03 set forth in Requirements 9.1.1 and 9.1.3 are below the Subpart IIII Emission Standards in Requirement 9.1.6, the following phrase was added to the Requirement 9.1.6 for compliance demonstration purposes: *"Compliance with NO<sub>x</sub>, CO and PM emission limits in Requirements 9.1.1. and 9.1.3 will demonstrate compliance with these Standards."*

For an easy comparison of the Subpart IIII standards and permit emission limits refer to the Table above for the engine 001-03 and the Table below for engines 001-01 and 001-02. Conversion from g/bhp-hr to lb/hr:

$$\text{Emissions [lb/hr]} = \text{Emissions [g/bhp-hr]} \times \text{Engine power [hp]} / 454 \text{ [g/lb]}$$

Fire Pumps 001-01 and 001-02	NMHC + NO <sub>x</sub>		NO <sub>x</sub>		CO		PM	
	g/bhp-hr	lb/hr	g/bhp-hr	lb/hr	g/bhp-hr	lb/hr	g/bhp-hr	lb/hr
Subpart IIII Emission Standard For Fire Pump Engine with a displacement < 30 liters per cylinder and 300 ≤ HP < 600 of model year 2008 and earlier	7.8	10.5	-	-	2.6	3.5	0.40	0.54
Guaranteed Emissions of Fire Pumps 001-01 and 001-02 (each)	5.51	3.64	5.20	3.44	1.01	0.67	0.23	0.15

5. Requirement 9.1.11 (formerly 9.1.9) was expanded by inclusion of compliance demonstration methods (40 C.F.R. §§60.4211(b)(1) through (b)(5)) for clarification purposes.
6. Requirement 9.4.4 (recordkeeping) was revised – a compliance demonstration with the Requirement 9.1.12 for the proposed engine 001-03 was added.

### **Non-Applicability Determinations**

None.

### **Request for Variances or Alternatives**

None.

### **Insignificant Activities**

Insignificant emission unit(s) and activities are identified in the Title V application.

### **Comment Period**

Beginning Date: N/A  
Ending Date: N/A

All written comments should be addressed to the following individual and office:

Natalya Chertkovsky-Veselova  
Title V Permit Writer  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

### **Procedure for Requesting Public Hearing**

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

### **Point of Contact**

Natalya Chertkovsky-Veselova  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
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### **Response to Comments (Statement of Basis)**

None.